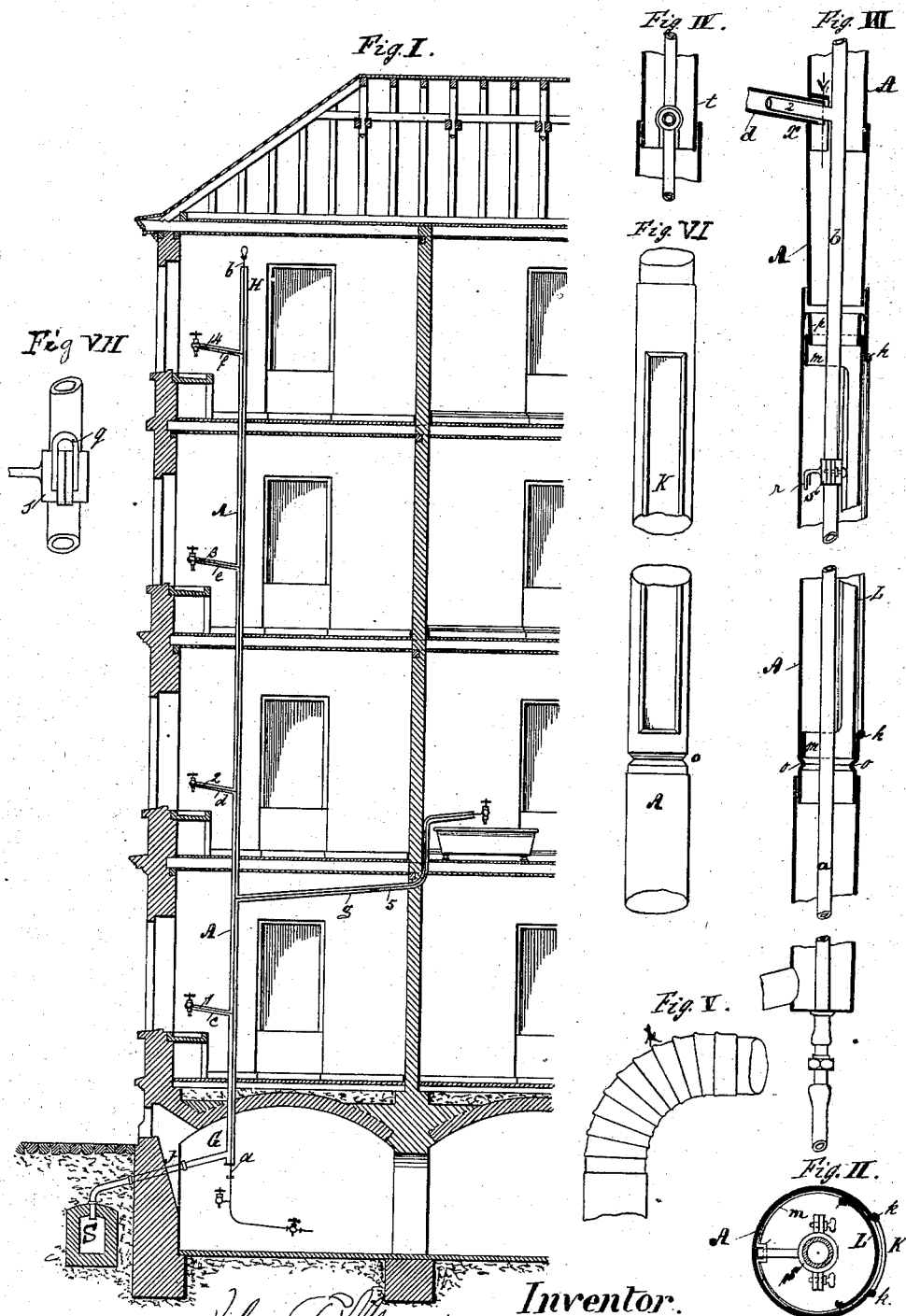


(No Model.)

W. WEISBARTH.
Casing for Water Pipes.

No. 239,284.

Patented March 22, 1881.



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UNITED STATES PATENT OFFICE.

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CASING FOR WATER-PIPES.

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To all whom it may concern:

Be it known that I, WILHELM WEISBARTH, of Offenbach-on-the-Main, in Germany, have invented a new and useful Improvement in Casings for Water-Pipes, of which the following is a specification.

This invention relates to casings to surround water-pipes in dwellings, to prevent the inconveniences and danger resulting from the bursting or breaking of the water-pipes; and it consists of a tin or sheet-metal case surrounding the pipes, with suitable openings and doors, to facilitate all necessary repairs, as well as the manner of connecting the branches to said casing.

In the accompanying drawings, Figure I represents a vertical section of a building, showing an arrangement of water-pipes with my improvement attached. Fig. II represents a cross-section through the main pipe and its casing. Fig. III represents a vertical section through the said casing, showing the inclosed main pipe and one of its branches. Fig. IV represents a vertical section through a part of said casing, on a plane at right angles to that of Fig. III. Fig. V represents a detached view of a curve or elbow of said casing corresponding to a bend in the pipe. Fig. VI represents a front elevation of a part of the casing and one of the doors therein. Fig. VII represents an additional detail view—all the said figures, II to VI, inclusive, being drawn on a larger scale than that of Fig. I.

Similar letters represent similar parts in all the figures.

a b represent the main water-pipe, having branches 1 2 3 4 leading toward the sinks in the kitchen of the several floors, as well as a branch, 5, leading to the bath-room. The main water-pipe *a b* is surrounded with a tin, zinc, or sheet-metal pipe, *A*, open at the upper end, *H*, and closed at its lower end, *G*, where a pipe, *J*, connects the same with the sewer *S*. The branch pipes 1, 2, 3, 4, and 5 are likewise inclosed in similar pipes, *c, d, e, f*, and *g*. These outer inclosing-pipes are put together like stove-pipes, and are provided on each floor with openings *K*, to give access to the inner water-

pipes. The edges of the metal at the sides of these openings *K* are bent, as shown at *k*, Figs. II and III, to strengthen the pipes. These openings *K* are closed by internal sliding doors *L*. These doors *L*, Figs. II and III, are made considerably wider than the width of the opening *K*, and are provided with rings *m m* at top and bottom, fitting into the inside of the main pipe *A*, and act as guides for said door *L*. The lower ring, *m*, rests (when the door is closed) upon a suitable internal crease, *o*, made in this pipe *A*, and into the upper ring, *m*, a tube, *p*, firmly attached at its upper end to the pipe *A*, is made to project, to prevent any water passing down through the pipe *A* from passing to the outside of this door *L*.

The pipes or casings *c d e f g* for the branch water-pipes are provided with similar openings and internal sliding doors, with this exception only, that they must be placed on the upper side of said pipes or casings, and do not require the internal tubes, *p*, for guiding and directing the flow of water, as above described. The water-pipes are attached and retained in position in the central part of this surrounding pipe or casing by suitable brackets or clamps, *s*, which hook into suitable eyes, *r*, attached on the inside of the surrounding pipes or casing.

Where the branch pipes join the main pipe, as at *x*, Fig. III, the pipe *A* is provided, at its inside, with a projecting flange, *v*, Fig. III, surrounding about one-half or more of the branch casing, to prevent any water coming from above escaping at the opening through which this branch casing is inserted into the main casing *A*. It may at the same time be remarked that this casing *A*, surrounding the water-pipes, as well as the branches leading to the several departments in the building, will prevent, in a great measure, the freezing of these water-pipes, and, if necessary, a small gas-flame may be introduced at or near the lower end of said casing, to produce a current of hot air in said casing.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In combination with the main water-pipe, the casing A, having doors L, guide-rings *m*, creases *o*, and internal pipe, *p*, which prevents the escape of water from said casing, substantially as set forth.
2. A metal casing, A, surrounding the water-pipes inside of a building, provided with openings K, in combination with sliding doors L, having guiding-rings *m m* at the ends, substantially in the manner and for the purpose herein described.

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